



SEQUENCE LISTING

<110> Alan et, al.

<120> NOVEL MELANOCORTIN-4 RECEPTOR SEQUENCES AND
SCREENING ASSAYS TO IDENTIFY COMPOUNDS USEFUL
IN REGULATING ANIMAL APPETITE AND METABOLIC RATE

<130> PC10743A

<140> 60/213,909

<141> 2000-06-26

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<170> PatentIn Ver. 2.1

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<212> DNA

<213> Feline MC4R Nucleotide Sequence

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<213> Canine MC4R Nucleotide Sequence

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Val Ile Val Ala Ile Ala Lys Asn Lys Asn Leu His Ser Pro Met Tyr
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Phe Phe Ile Cys Ser Leu Ala Val Ala Asp Met Leu Val Ser Val Ser
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Asn Gly Ser Glu Thr Ile Val Ile Thr Leu Leu Asn Ser Thr Asp Thr
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Asp Ala Gln Ser Phe Thr Val Asn Ile Asp Asn Val Ile Asp Ser Val
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Cys Thr Val Ser Gly Val Leu Phe Ile Ile Tyr Ser Asp Ser Ser Ala
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Val Ile Ile Cys Leu Ile Thr Met Phe Phe Thr Met Leu Ala Leu Met
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Ala Ser Leu Tyr Val His Met Phe Leu Met Ala Arg Leu His Ile Lys
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Met Lys Gly Ala Ile Thr Leu Thr Ile Leu Ile Gly Val Phe Val Val
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Cys Trp Ala Pro Phe Phe Leu His Leu Ile Phe Tyr Ile Ser Cys Pro
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Gln Asn Pro Tyr Cys Val Cys Phe Met Ser His Phe Asn Leu Tyr Leu
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35 40 45

Glu Val Phe Val Thr Leu Gly Val Ile Ser Leu Leu Glu Asn Ile Leu
50 55 60

Val Ile Val Ala Ile Ala Lys Asn Lys Asn Leu His Ser Pro Met Tyr
65 70 75 80

Phe Phe Ile Cys Ser Leu Ala Val Ala Asp Met Leu Val Ser Val Ser
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Asp Ala Gln Ser Phe Thr Val Asn Ile Asp Asn Val Ile Asp Ser Val
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Ile Cys Ser Ser Leu Leu Ala Ser Ile Cys Ser Leu Leu Ser Ile Ala
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Val Asp Arg Tyr Phe Thr Ile Phe Tyr Ala Leu Gln Tyr His Asn Ile
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Met Thr Val Arg Arg Val Gly Ile Ile Ile Ser Cys Ile Trp Ala Ala
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Cys Thr Val Ser Gly Ile Leu Phe Ile Ile Tyr Ser Asp Ser Thr Ala
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Val Ile Ile Cys Leu Ile Thr Met Phe Phe Thr Met Leu Ala Leu Met
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Ala Ser Leu Tyr Val His Met Phe Leu Met Ala Arg Leu His Ile Lys
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